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85 High performance software on Intel Pentium Pro processors or Micro-Ops to TeraFLOPS

Bruce Greer, Greg Henry
 November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: [pdf\(101.17 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)



This paper gives a technical discussion of the Intel Pentium® Pro processor and optimization strategies used to achieve high performance on scientific applications. We demonstrate these optimizations by characterizing matrix multiplication (DGEMM). We give insight and a model into our efforts on obtaining the world's first TeraFLOP MP LINPACK run (on the Intel ASCI Option Red Supercomputer), based on Pentium Pro processor technology. The importance of this paper is carried by the increasing ...

Keywords: ASCI Red, BLAS, DGEMM, MP LINPACK, TeraFLOP, optimization

86 Fast detection of communication patterns in distributed executions 

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

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Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

87 Historical perspectives on the computing curriculum 

Michael Goldweber, John Impagliazzo, Iouri A. Bogoiavlenski, A. G. Clear, Gordon Davies, Hans Flack, J. Paul Myers, Richard Rasala

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Computing has become a diverse and multi-faceted discipline. It is imperative that computing curricula evolve so that they will effectively convey this breadth. An awareness of the societal implications of computing must also be at the core of all computing curricula. Furthermore, we observe that new computing curricula must be responsive to change, that pedagogy must be informed by reasoned judgment, and that educators function as reflective practitioners. This requires educators to respond app ...

88 Historical perspectives on the computing curriculum (report of the ITiCSE '97 working group on historical perspectives in computing education) 

Michael Goldweber, John Impagliazzo, Iouri A. Bogoiavlenski, A. G. Clear, Gordon Davies, Hans Flack, J. Paul Myers, Richard Rasala

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Ronald Baeker, Alan J. Rosenthal, Naomi Friedlander, Eric Smith, Andrew Cohen

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90 Report from the NSF workshop on workflow and process automation in information systems 

Amit Sheth, Dimitrios Georgakopoulos, Stef M. M. Joosten, Marek Rusinkiewicz, Walt Scacchi, Jack Wileden, Alexander L. Wolf

December 1996 **ACM SIGMOD Record**, Volume 25 Issue 4

Full text available:  pdf(1.31 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

An interdisciplinary research community needs to address challenging issues raised by applying workflow management technology in information systems. This conclusion results from the NSF workshop on Workflow and Process Automation in Information Systems which was held at the State Botanical Garden of Georgia during May 8-10, 1996. The

workshop brought together active researchers and practitioners from several communities,
with significant representation from database and distributed systems ...

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Kerim Tumay

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